

Figure 1

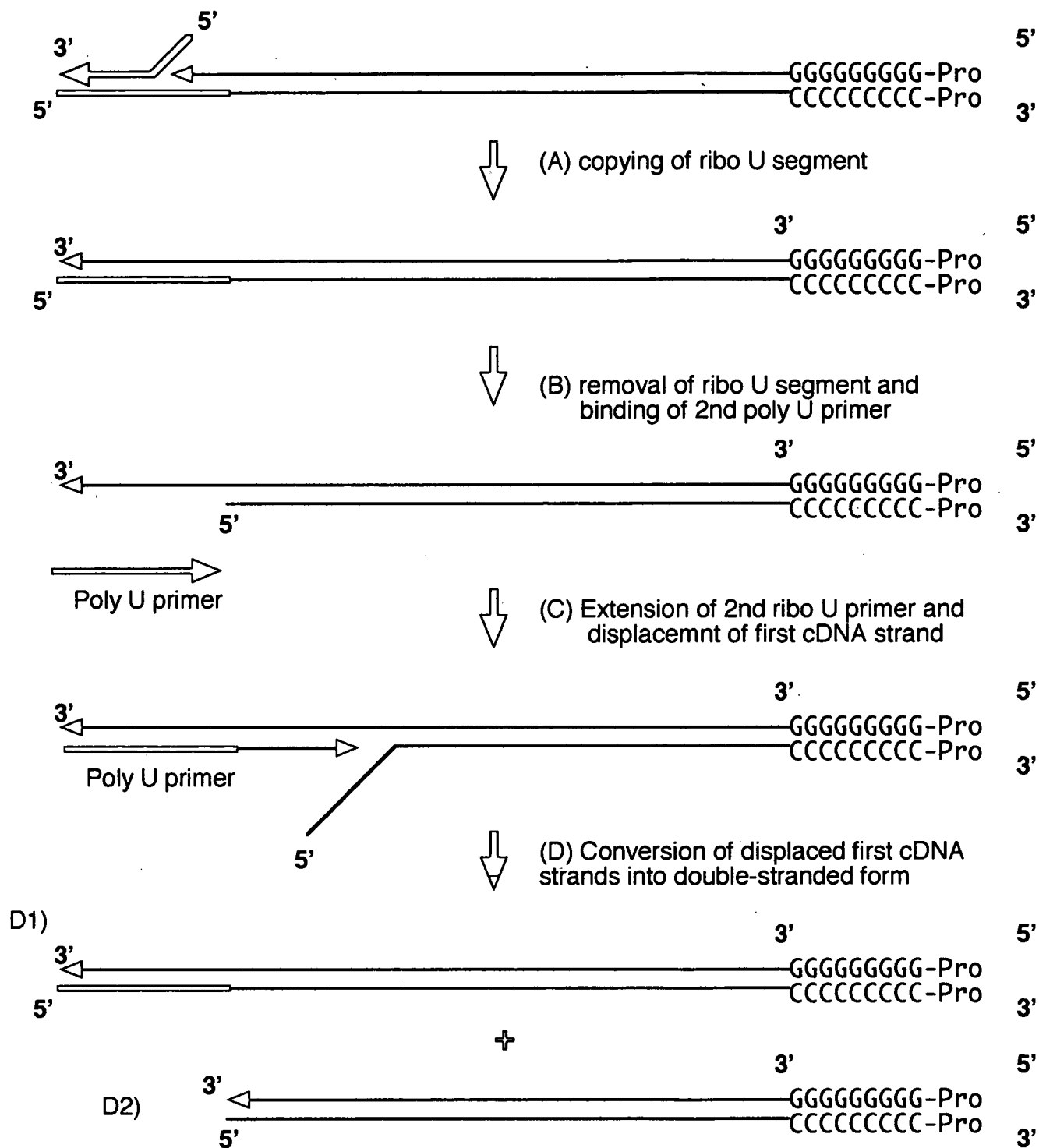


Figure 2

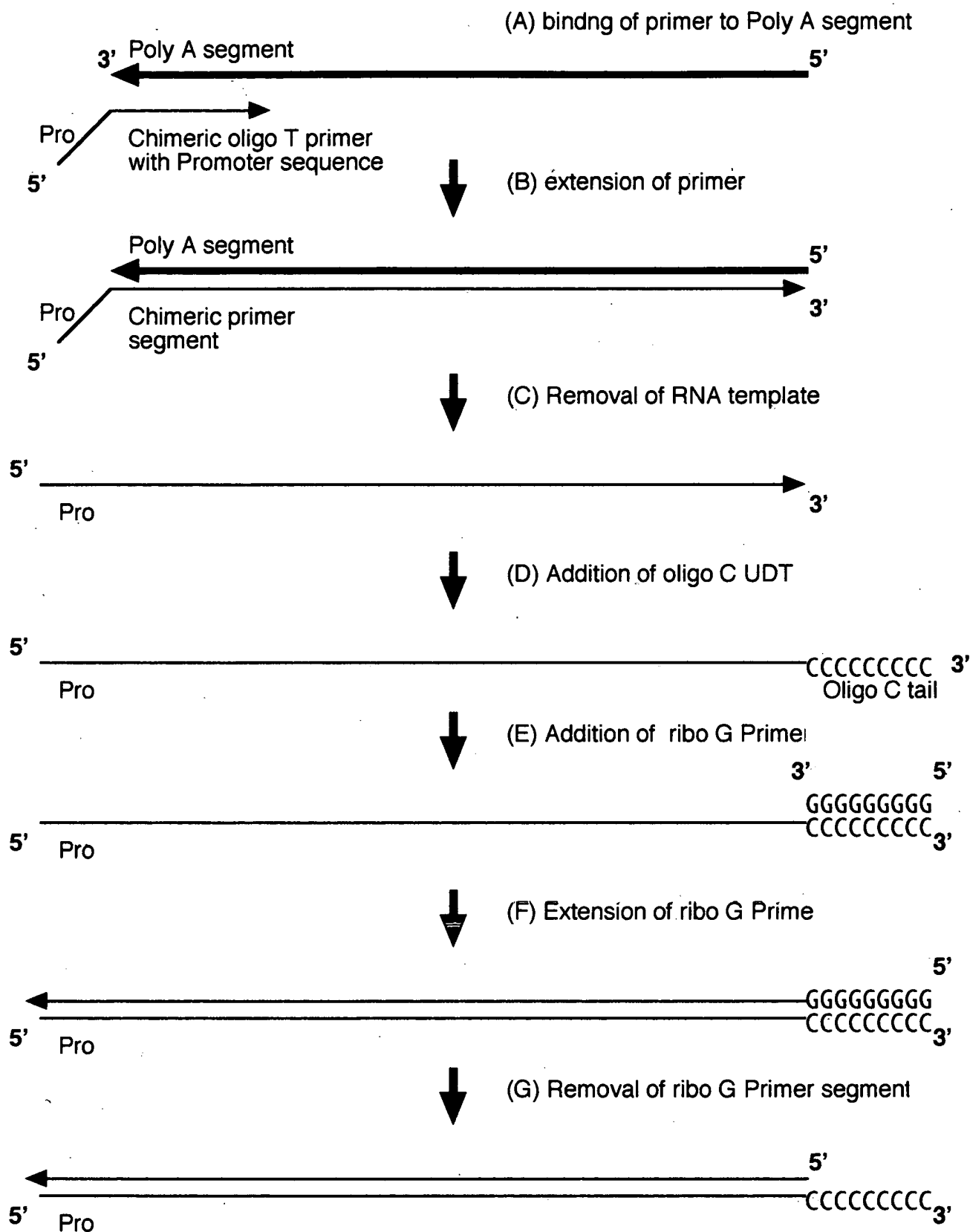


Figure 3

Group A ULE Linkers

ULE A-1	3' GAACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE A-2	3' AAACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE A-3	3' CAACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE A-4	3' GTACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE A-5	3' AGACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE A-6	3' CCACTGCCCCACTG 5' TGACGGGGTGAC 3'

Group B ULE Linkers

ULE B-1	3' TCACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE B-2	3' TTACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE B-3	3' TGACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE B-4	3' ACACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE B-5	3' CTA CTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE B-6	3' GGACTGCCCCACTG 5' TGACGGGGTGAC 3'

Not included in Group A or Group B are the last 4 permutations
(since they are self-complementary)

3' GCACTGCCCCACTG 5'
TGACGGGGTGAC 3'

3' TAACTGCCCCACTG 5'
TGACGGGGTGAC 3'

3' CGACTGCCCCACTG 5'
TGACGGGGTGAC 3'

3' AATACTGCCCCACTG 5'
TGACGGGGTGAC 3'

Figure 4

ULE Linkers with 2 base permutational tails

Group C ULE Linkers

ULE linkers binding to Targets with
XXXXXXXXXX NCG 3' ends

ULE C-1	3' GGCACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE C-2	3' AGCACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE C-3	3' TGCACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE C-4	3' CGCACTGCCCCACTG 5' TGACGGGGTGAC 3'

ULE linkers binding to Targets with
XXXXXXXXXX NAT 3' ends

ULE C-5	3' GTAAC T G C C C C A C T G 5' TGACGGGGTGAC 3'
ULE C-6	3' ATAAC T G C C C C A C T G 5' TGACGGGGTGAC 3'
ULE C-7	3' TTAAC T G C C C C A C T G 5' TGACGGGGTGAC 3'
ULE C-8	3' CTAAC T G C C C C A C T G 5' TGACGGGGTGAC 3'

Group D ULE Linkers

ULE linkers binding to Targets with
XXXXXXXXXX NGC 3' ends

ULE D-1	3' GCGACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-2	3' ACGACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-3	3' TCGACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-4	3' CCGACTGCCCCACTG 5' TGACGGGGTGAC 3'

ULE linkers binding to Targets with
XXXXXXXXXX NTA 3' ends

ULE D-5	3' GATACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-6	3' AATACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-7	3' TATACTGCCCCACTG 5' TGACGGGGTGAC 3'
ULE D-8	3' CATACTGCCCCACTG 5' TGACGGGGTGAC 3'

Figure 5

ULE Linkers with 3 base permutational tails

1. Treated RNA
+ No Primer

2. Treated RNA
+ dT₂₄ Primer)

3. Untreated RNA
+ No Primer

4. Untreated RNA
+ dT₂₄ Primer)

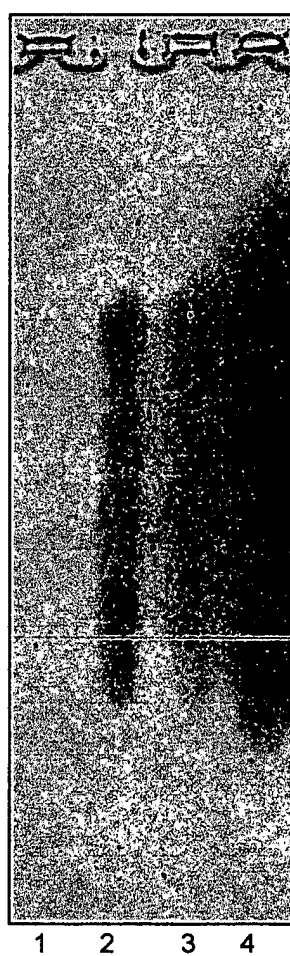


Figure 6

	1	2	3	4	5	6	7	8
UTP without TdT	-	-	+	+	-	-	-	-
UTP/TdT	-	-	-	-	+	+	-	-
dGTP/TdT	-	+	-	+	-	+	-	-

Lane 7 = 24-mer size standard
Lane 8 = 38-mer size standard

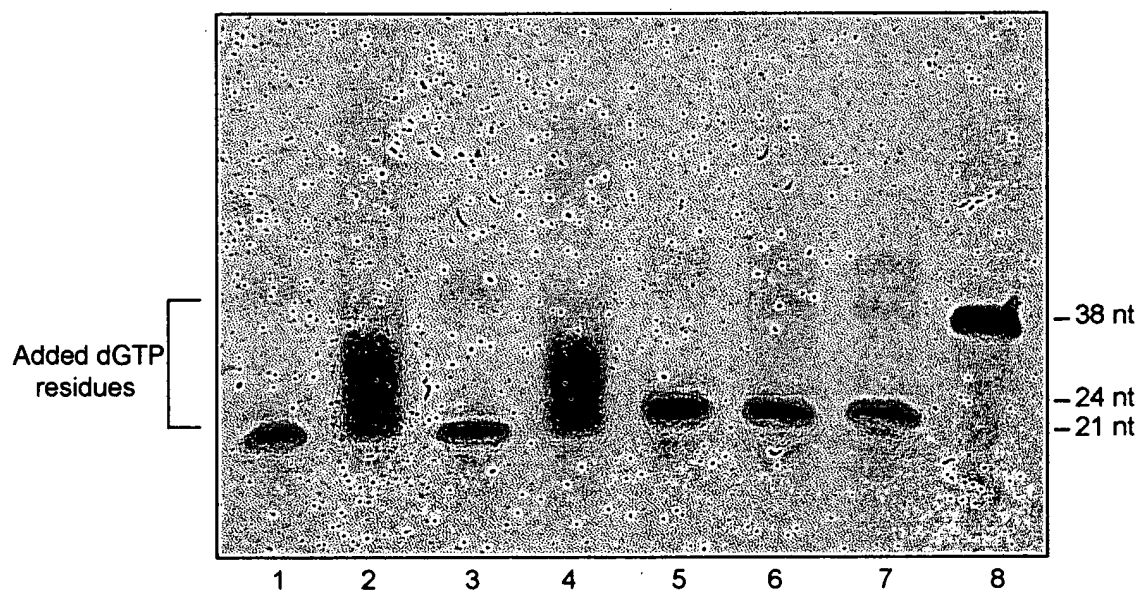


Figure 7

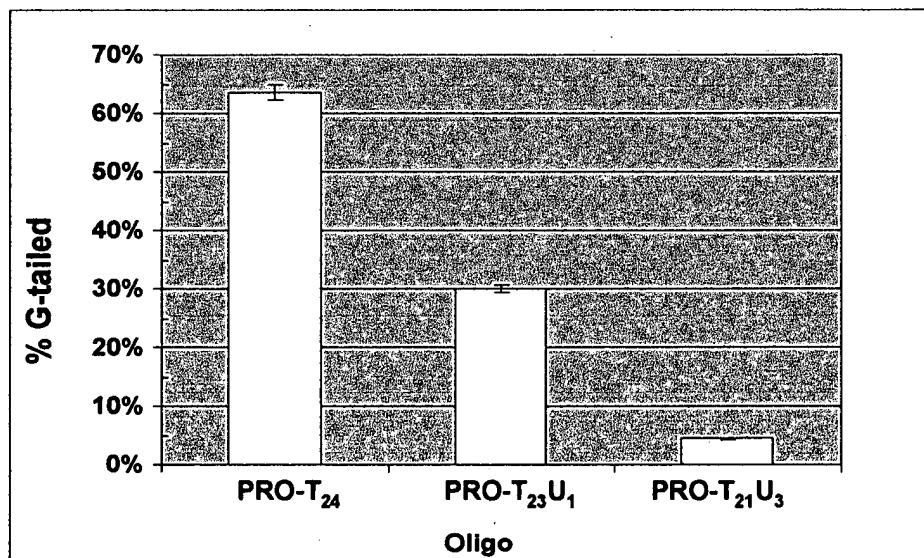
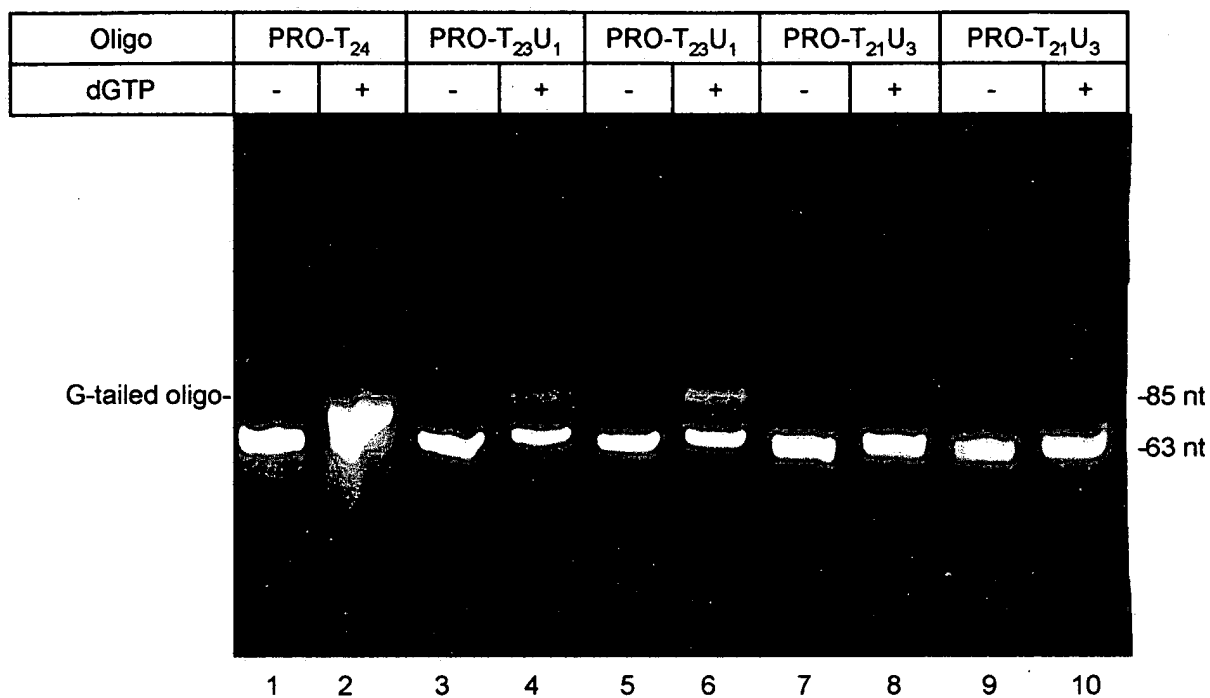


Figure 8

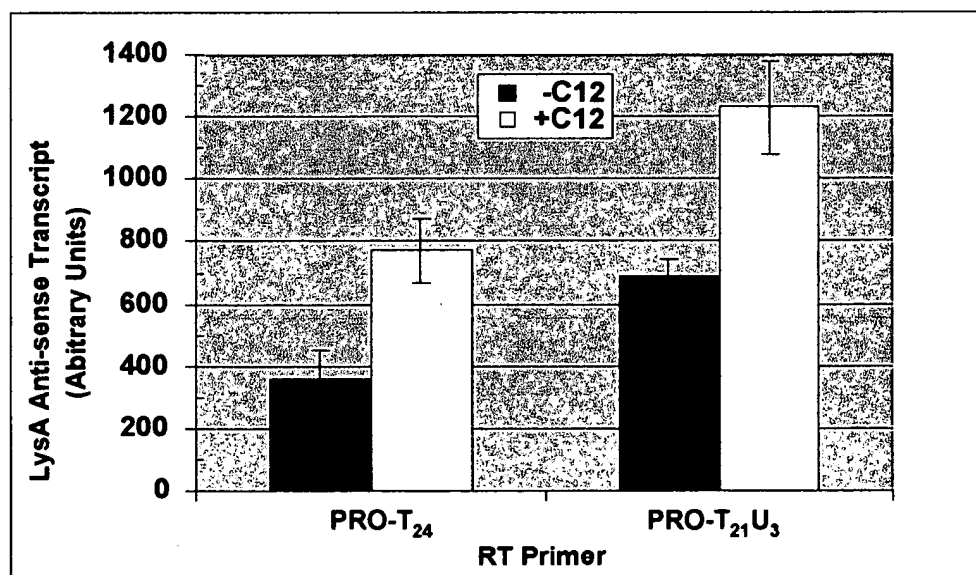
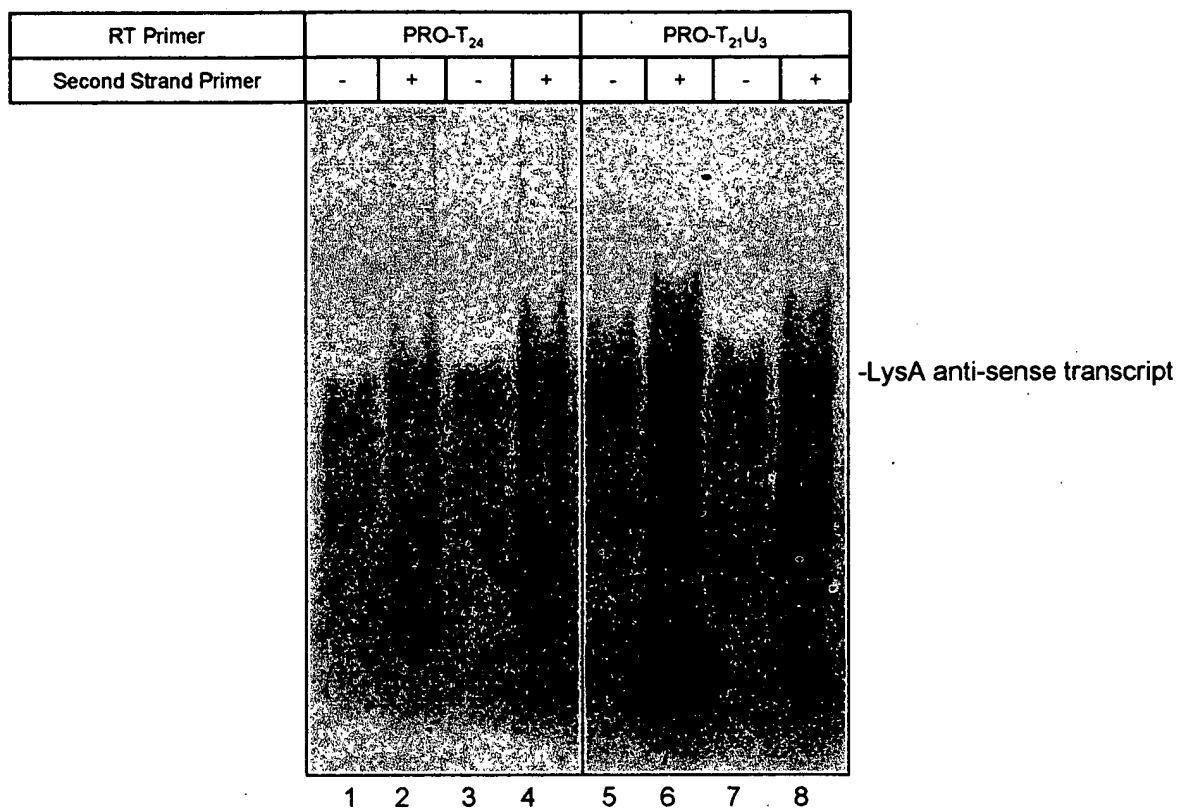


Figure 9

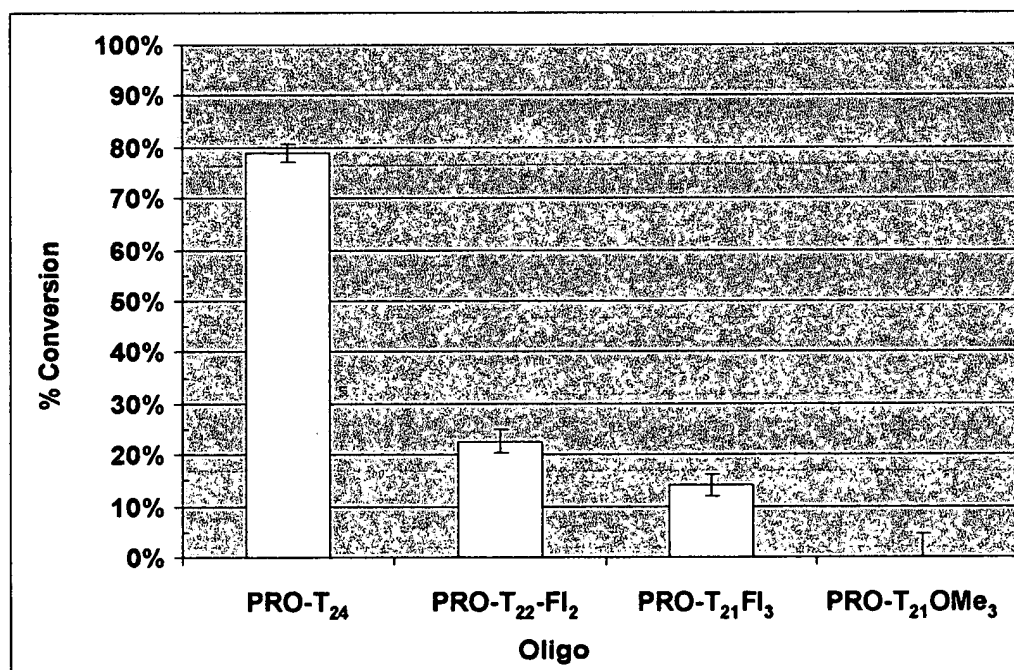
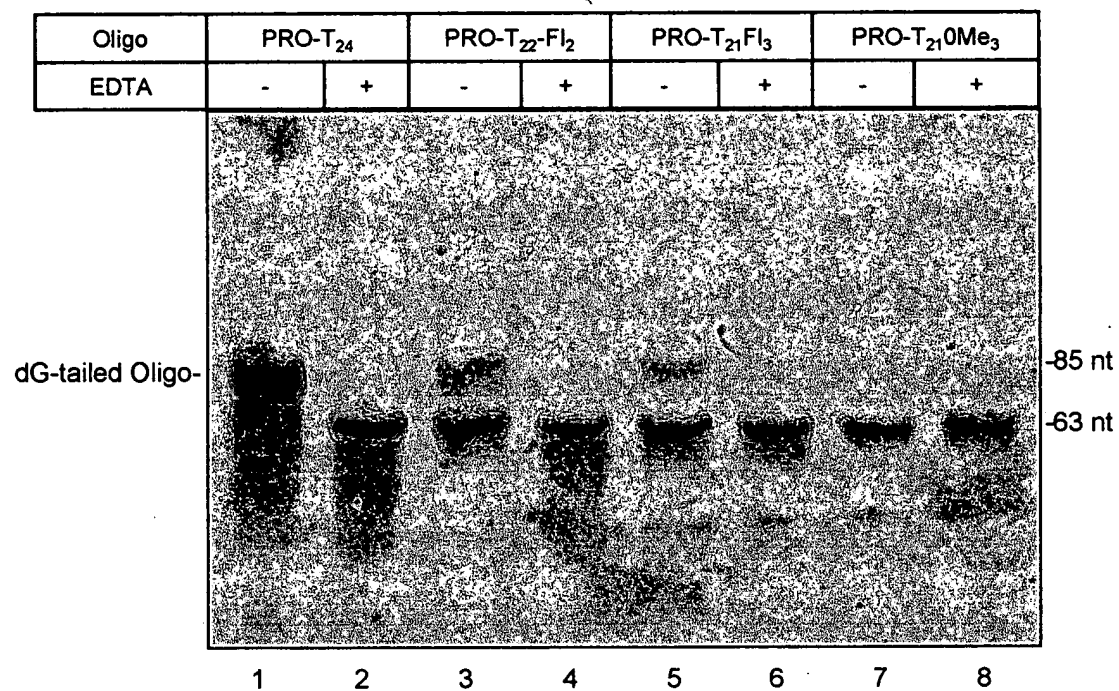


Figure 10

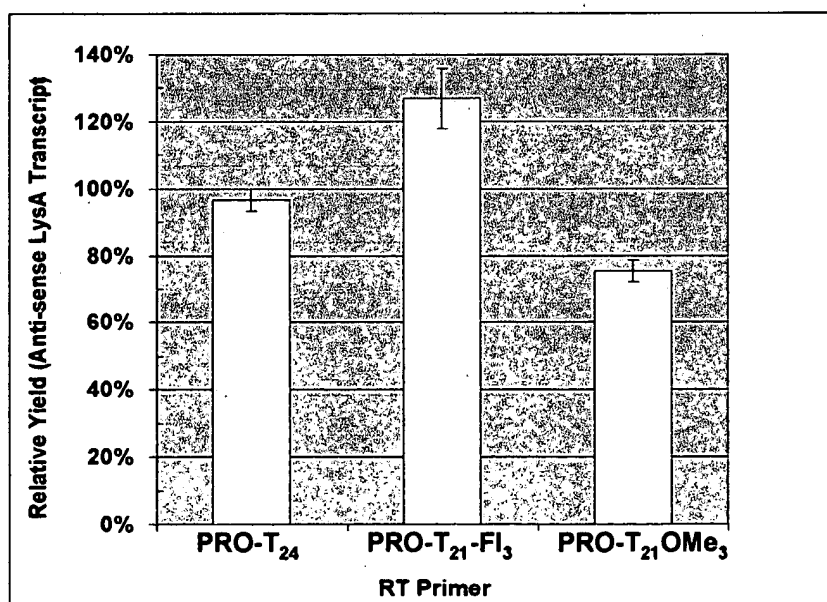
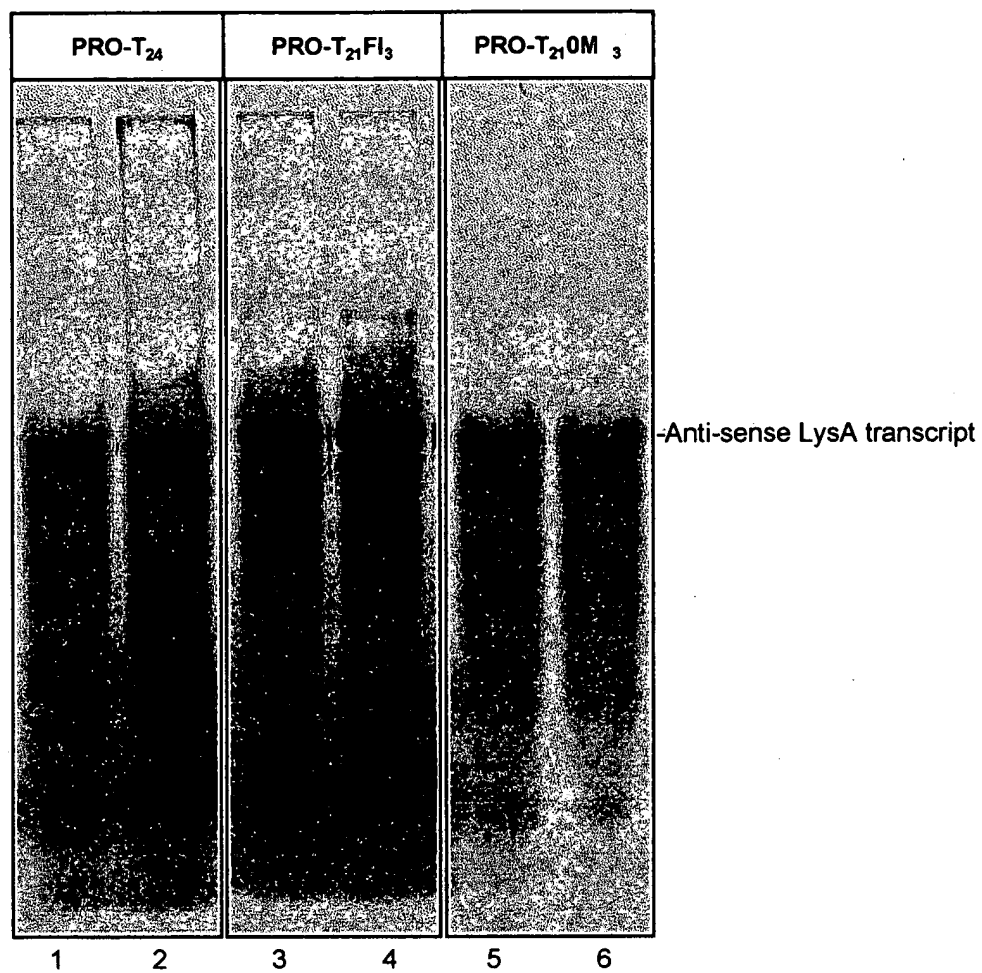


Figure 11

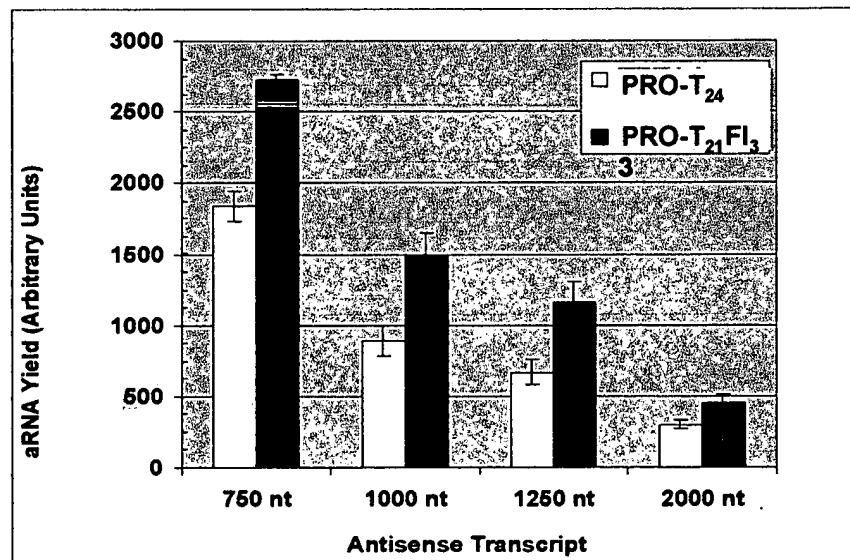
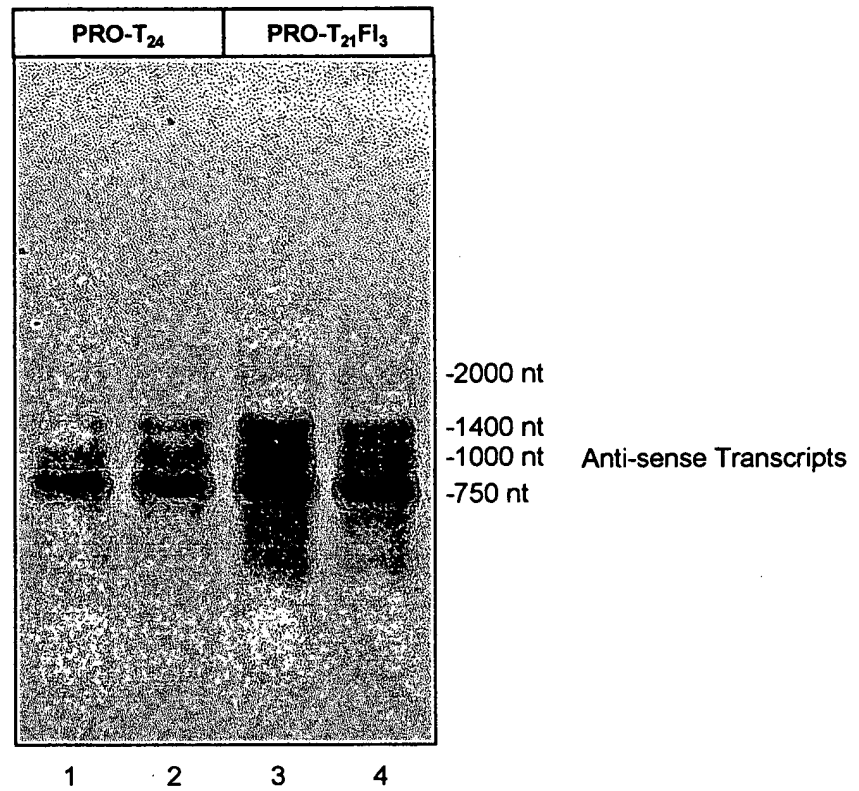


Figure 12

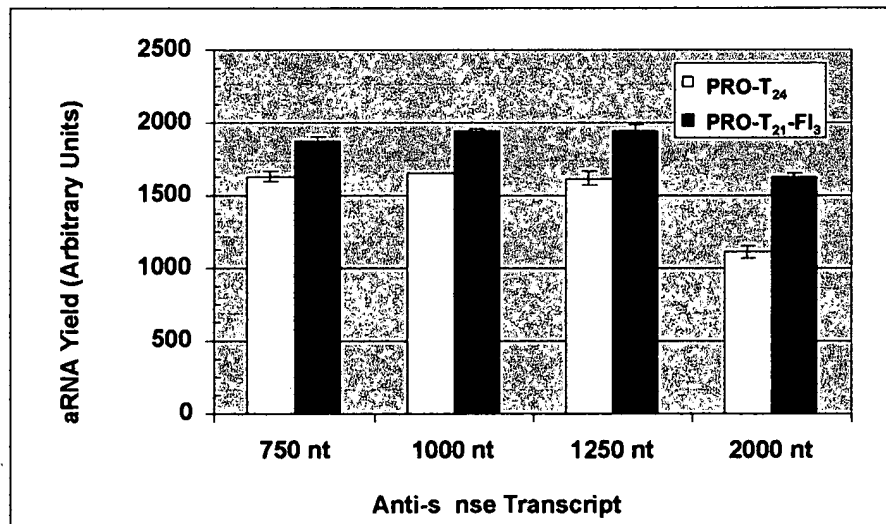
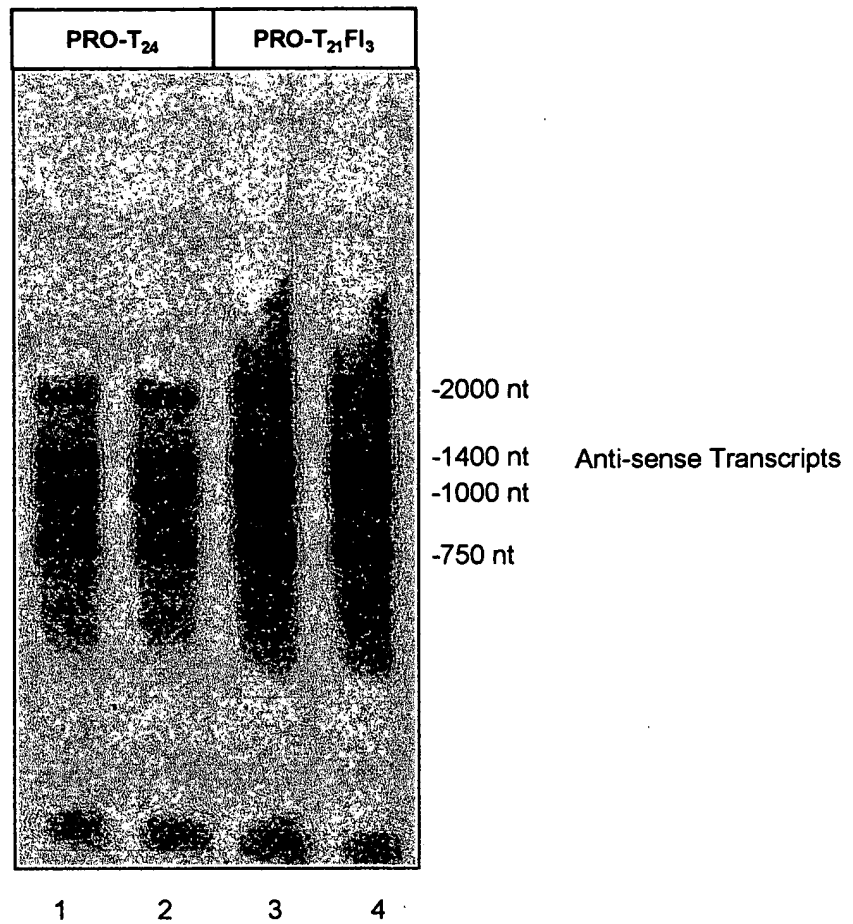


Figure 13